

SEQUENCE L

<110> Morin, Gregg B.
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<141> 2000-02-04

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| cctgtttctg | gagctgcttg | ggaaccacgc | gcagtgcccc | tacgggggtg | tcctcaagac | 14880 |
| gcaactgccc | ctgcgagctg | cggtcacccc | agcagccggt | gtctgtgccc | gggagaagcc | 14940 |
| ccagggtctct | gtggcgggccc | ccgaggagga | ggacacagac | ccccgtcgcc | tggtgcagct | 15000 |
| gctccgccag | cacagcagcc | cctggcaggt | gtacggcttc | gtgcgggcct | gcctgcgcgc | 15060 |
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| gatgagcgtg | cgggactgcg | cttggctgcg | caggagccca | ggtgaggagg | tggtggccgt | 15240 |
| cgagggccca | ggccccagag | ctgaatgcag | taggggtcca | gaaaaggggg | caggcagagc | 15300 |
| cctggtcctc | ctgtctccat | cgtcacgtgg | gcacacgtgg | cttttcgctc | aggacgtcga | 15360 |
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 <213> Mus sp.

<220>
 <223> Mouse TERT promoter

<400> 2

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| cggtactgaa | caaataatgt | ctgggcaaac | ctcagacatg | aaaatggaag | acgtggaat | 120 |
| ccagagaact | ctgagggaaa | ataaaacaca | actccagggtc | atcacgggac | tcatcaaact | 180 |
| gctgaggtgc | agccacagag | aaaaatctta | aaatagccta | gaacgatgca | tgacacataa | 240 |
| agcacagaga | agacgaagct | gagtctgtct | tgtaggaaca | acttgagaag | acctaaacca | 300 |
| ctgcaatgag | tgcattctgc | taacttagaa | tttgctaccc | agttcagatc | caaaaagggt | 360 |
| ttcacaaaagt | tcaacacaaa | acagtagcag | gagtggtctaa | gggggacaca | ctgataggaa | 420 |
| ttcagagaag | tagggaatgc | tcatatgggg | acattacaaa | atgtactttc | atgttgctta | 480 |
| aatcattttta | attgtcaacc | acatcaagct | aaataatgct | ttgaggttca | taacatttgg | 540 |
| agattatgtc | tacactagca | gagaaggcac | caataacatc | ccaattgcta | gattctcata | 600 |
| gaatcatgag | tcacaatggc | agagacaggt | tctgagagt | tgtccttggt | gtaaacagta | 660 |
| tgctctacaa | actaagttgg | ctgcaatata | actaggcagt | gttggtcccat | aagacaacta | 720 |
| tcacatatgt | ggtccagtga | tgaccaaagc | atcttttagc | attttgcaaa | tgaagctcaa | 780 |
| atcgaatatg | actaagctca | tgacgtacaa | atcaaaggta | cactgggata | gtttaaaaga | 840 |
| tacatacttg | tactggtttag | ttttgtgtca | gcttgacaca | gctggagtta | tcacagagaa | 900 |
| aagagcttca | gttgaggaaa | ttcctccatg | agatccagct | atagggcatt | ttctcaatta | 960 |
| gtgatcaagg | ggggaaggcc | ccttggtggg | gggaccatct | ctgggctggt | agtcttggtt | 1020 |
| ctataagaga | gcaggctgag | caagccagga | gaagcaagcc | agtaaagaac | atccctccat | 1080 |
| ggcttctgca | tcagctcctg | ctccctgacc | tgcttgagtt | ccagttctaa | cttctttcag | 1140 |
| tgatgaacag | caatgtggaa | atgaaagctg | aataaacctt | ttcctcccca | ttttgcttct | 1200 |
| tggtcatgat | gtttgtgcag | gaatagaaac | cctgactaag | acaatactat | aaaccctaaa | 1260 |
| agttgtaaac | caaacacatg | tgtttccatt | aagccatcgt | agaacaataa | gtactcaacc | 1320 |
| ccaagtcaca | taactataat | cccagccttt | gaaaaccggg | atcaggaatt | caaggctagc | 1380 |
| ctcatctata | tgtaagatta | aagcctgttt | gggctgcatg | agactttggt | tcaaaaaaaaa | 1440 |
| aaaaaaaaaa | gcaaacaggc | aaaaacaaac | acaagacaag | acagatgtaa | aatgaaggag | 1500 |
| gggtagatgg | gtcaagtaga | aaatagcata | ggaaacgagt | caagtataga | agagggtgta | 1560 |
| gtaaccagat | catgcagaag | gactcaaggc | catctcctca | cagtggctta | ggtaggcctt | 1620 |
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| aactgaaaag | ctgaacagtc | ttctcaagtc | agaagccagt | ggcttcatct | tacacctctc | 1740 |
| ttccttccct | tgctactcat | attggatctg | atgatttgcc | caacttgga | gaaacatctc | 1800 |
| ttctgaaggg | tttcacagac | accccatctt | tccgagaaag | gaccgcatag | gctggccatc | 1860 |
| cctgtgctta | caaaaaggaa | aattaagaaa | cttaattcca | taagcaaata | caacctttcc | 1920 |
| aagccccaag | tggtgatatt | tatcttactg | tttttttata | tctcatcaaa | taactttcaa | 1980 |
| gggctcaaaa | atccaaagat | gtaaaaaagg | aactgagctc | tgtttgccaa | gccatgagga | 2040 |
| ttaaataatg | acattcaaag | agatttttgt | gccctaagta | cttttttattg | gttttcatag | 2100 |
| atggtttaaat | gtgcaagatg | aagcaaacag | agatgggagt | ggtatcagca | tggattaagg | 2160 |
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| ccctggttct | gaatggggga | gaatccagtg | ggagtgggtt | gctgccagca | tgttggggta | 2580 |
| gaaggctgga | gcatgacagg | tccccgagga | tttcctgctt | cctatatggg | tagggatact | 2640 |
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| ttggggaaact | acactaaagt | agcttacaag | tgtgcaccac | catgccccgc | gatattctta | 3180 |
| tttttgagac | tgttttctat | gctgggttct | ttggggaaact | acactaaagt | agcttcattg | 3240 |
| ttggcataaaa | tttctcagtt | caggccccata | tctcctaagt | agcagaacta | agcaaattctc | 3300 |
| aaacaaaacc | ctcaaaaaga | ctgatgtcca | ctaaacggac | ttctaaaata | gctcctgtaa | 3360 |
| tcctgagcat | ttacaaggcg | gcagacctcc | tataagggag | taaatatgaa | aacgcgcctg | 3420 |
| ttcaaatgct | aggctcgggtg | atagaagcaa | tttcctcaga | aagctgaagg | caccaaagggt | 3480 |
| tatatttgtt | agcatttcag | tgtttgccaa | actcagctac | agtagagatc | acagattccc | 3540 |
| tatttcccag | agattcaaaa | ttcagcagcc | cctctctaac | tatggctcag | agtcgtgtca | 3600 |

| | | | | | | |
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| ttacatatgc | cccccaaca | acccccaccc | ctatcctacc | ccccctcac | acgtgcaagt | 3660 |
| actatcacag | ttgccaacct | agcagagctg | ccatcctaag | gtcagaggctg | ccgctttggc | 3720 |
| tgtgtgcaca | ggcaagcgcc | ctcacccaat | ggccctggcc | ttgctatggg | tgcgtgagtt | 3780 |
| gagatgatgc | tctggactct | gagggtgaagg | ccactggaac | agtgaaaaaa | gctaacgcag | 3840 |
| ggcttttacc | tagtccccct | ccttttggtg | tgggtgttta | cggaacatat | ttgggatctg | 3900 |
| agtgtatggt | gcgaccacaa | taaagcctta | acctatatag | tagaatttca | gctgtaatca | 3960 |
| ttaagaactg | agattgccac | cacccacctc | actgtctgtg | tcaaccacag | caggctggag | 4020 |
| cagtcagctc | aggaacaggc | aaaaccttag | gtccctccgc | ctacctaacc | ttcaatacat | 4080 |
| caaggatagg | cttcttttgc | tgcccaaacc | tcgccccagt | ctagaccacc | tggggattcc | 4140 |
| cagctcaggg | cgaaaaggaa | gcccggagaag | cattctgtag | agggaaatcc | tgcattgagt | 4200 |
| cgcccccttt | cgttactcca | acacatccag | caaccactga | acttggcccg | ggaacacacc | 4260 |
| tggtcctcat | gcaccagcat | tgtgaccatc | aacggaaaag | tactattgct | gcgaccccg | 4320 |
| cccttcggct | acaacgcttg | gtccgcctga | atcccccccc | ttcctccgtt | cccagcctca | 4380 |
| tctttttcgt | cgtggactct | cagtggcctg | ggctctggct | gtttttctaag | cacacccttg | 4440 |
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| acctgccgac | ctttccttcc | accaggtggg | ctccaggcg | ggatcccat | gggtcagggg | 4740 |
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| ctccacatct | ctgctgtcac | caccccgcga | aaatgccttt | cagctcaggc | catttattga | 5580 |
| gaccagacat | ttccttttact | ccagggggaga | tggccaagag | cgtctaaacc | cctcattcct | 5640 |
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| ctggcagatg | cggccctgt | tccaacagct | gctggtgaac | catgcagagt | gccaatatgt | 5820 |
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| gaacaccagc | ccaccgcacc | tcatggattt | gctccgcctg | cacagcagtc | cctggcaggt | 5940 |
| atatggtttt | cttcgggcct | gtctctgcaa | ggtggtgtct | gctagtctct | ggggtaccag | 6000 |
| gcacaatgag | cgccgcttct | ttaaagaact | aaagaagttc | atctcgttgg | ggaaatacgg | 6060 |
| caagctatca | ctgcaggaac | tgatgtggaa | gatgaaagta | gaggattgcc | actggctccg | 6120 |
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| ttggatgagt | tccatcttat | ggtctctgac | tccaagctcc | ctccagctcg | ccttgcaaaa | 6300 |
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<210> 3

<211> 144

<212> DNA

<213> Artificial Sequence

<220>

<223> NCO1 fragment containing hTERT upstream sequences
 and the first intron of hTERT from lambdaGPhi5
 into the NCO1 site of a pBBS167 (variant of pUC
 cloning vector with MCS)

<400> 3

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 catgcccatt gcaggcctcg cgcgcgagat ctcggggcca atcgatgccg cggcgatatc 120
 gctcgaggaa gcttggcact ggcc 144

<210> 4

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: RA94

<400> 4

cccggccacc cccggaatt cgcgcgctcc ccgctgc 37

<210> 5

<211> 65

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: RA91

<400> 5

ttgtactgag agtgcacat atgcggtgtg catgctacgt aagaggttcc aactttcacc 60
 ataata 65

<210> 6

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: RA96

<400> 6

aattgcgaag cttacg 16

<210> 7
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: RA97

<400> 7
aattcgtaag cttcgc 16

<210> 8
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: oligo RA101

<400> 8
taggtaccga gctcttacgc gtgctagccc cacgtggcgg agggactggg gacccgggca 60

<210> 9
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: oligo RA100

<400> 9
taggtaccga gctcttacgc gtgctagccc ctcgctggcg tccctgcacc ctgggagc 58

<210> 10
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: RA107

<400> 10
cgtcctgctg cgcactcagg aagccctggc ccc 33

<210> 11
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: 'B' class
E-Box just proximal to the hTERT initiating Met in
pGRN262

<400> 11

6

6

25

<220>
<223> Description of Artificial Sequence: RA122

<400> 16
gaccgcgctt cccactcagc ggagggactg ggg

33

<210> 17
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<223> Human TERT promoter

<400> 17
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cggagggact ggggacccgg gcacccgtcc tgcccttca ccttccagct ccgcctctc 120
cgcgcggacc ccgccccgtc ccgacccctc ccgggtcccc ggcccagccc cctccggggc 180
ctcccagccc ctcccttcc tttccgcggc ccgcctctc cctcgcggcg cgagtttcag 240
gcagcgtgc gtcttctgc gcacgtggga agccctggcc ccggccaccc ccgcgatg 298

<210> 18
<211> 262
<212> DNA
<213> Mus sp.

<220>
<223> Mouse TERT promoter

<400> 18
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atcaacggaa aagtactatt gctgcgaccc cgcccttcc gctacaacgc ttggtccgcc 120
tgaatccgc cccttccctc gttcccagcc tcatctttt cgtcgtggac tctcagtggc 180
ctgggtcctg gctgttttct aagcacaccc ttgcatcttg gttcccgcac gtgggaggcc 240
catcccggcc ttgagcacia tg 262

<210> 19
<211> 77
<212> DNA
<213> Homo sapiens

<220>
<223> Human TERT promoter

<400> 19
ctcgcgggcg gagtttcagg cagcgtgcg tcctgctgcg cacgtgggaa gccctggccc 60
cggccacccc cgcgatg 77

<210> 20
<211> 89
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: E-box reporter
construct

<400> 20

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cgccacccc cgcaattcg cccaccatg 89

<210> 21
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: E-box reporter
construct (with portion deleted)

<400> 21
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<210> 22
<211> 497
<212> DNA
<213> Homo sapiens

<220>
<223> Human TERT promoter

<400> 22
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tttccaaacc gcccttttgc cctagtggca gagacaattc acaaacacag ccctttaaaa 180
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tggattcctg ggaagtc 497

<210> 23
<211> 425
<212> DNA
<213> Mus sp.

<220>
<223> Mouse TERT promoter

<400> 23
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catatctcct aagtagcaga actaagcaaa tctcaaaaca acccctcaaa aagactgatg 180
tccactaaac ggacttctaa aatagctcct gtaatcctga gcatttaca ggcggcagac 240
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agccc 425

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